

WHAT IS CLAIMED IS:

1. A network managing method providing a device
list with which device information with regard to a
plurality of devices is arranged in order and displayed
5 for every device, comprising:

a first obtaining step of obtaining a type of a
device information specified to be displayed in the
device list;

a second obtaining step of obtaining a type of the
10 device information used to be criteria in the case
where a plurality of devices are arranged in order in
the device list; and

a control step wherein the device information of a
type obtained in the second obtaining step is
15 controlled to be displayed in the device list, in spite
of a type obtained by the second obtaining step not
included in a type obtained in the first obtaining
step.

2. The method according to claim 1, further
comprising a display step of displaying the device list
on a display area.

3. The method according to claim 1, further
25 comprising a sort step that a plurality of devices is
sorted based on device information of a type obtained
in the second obtaining step, wherein in the control

step, a device information of a type obtained in the first obtaining step and a device information of a type obtained in the second acquisition step are controlled to be displayed in order of sorted device in the device
5 list.

4. The method according to claim 1,
wherein said first step has a type information obtaining step of obtaining a type information
10 representing a type of a device information specified to be displayed in the device list, and

said control step has a changing step of changing the type information so that the device information of a type obtained in the second obtaining step is
15 displayed in the device list.

5. The method according to claim 1, comprising:
a detection step of detecting a plurality of devices connected to a network;
20 a device information obtaining step of obtaining a device information from a detected a plurality of devices; and

a device list generation step of generating a device list data representing the device list based on
25 a obtained device information.

6. The method according to claim 5, comprising a

storing step of storing obtained device information in a memory area, and, in the device list generation step, generating the device list data based on a device information stored in the memory area.

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7. The method according to claim 5, comprising:
a transmitting step of transmitting a generated device list data to a network; and

10 a display controlling step of analyzing the transmitted device list data and having a display area display the device list.

15 8. The method according to claim 7, wherein said device list data is data described in HTML, and in the device list transmitting step the device list data being transmitted to a network using an HTTP protocol.

9. The method according to claim 8, wherein the device is a printer.

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10. The method according to claim 1, wherein the device information is at least one selected from the group of device name, device product name, location of device installation, device network address and device
25 MAC address.

11. A device management device providing a device

list in which a device information with regard to a plurality of devices are arranged in order and displayed for every device, comprising:

first obtaining means for obtaining a type of the
5 device information specified to be displayed in the device list;

second obtaining means for obtaining a type of device information used to be criteria in the case where a plurality of devices are arranged in order in
10 the device list; and

control means in which a device information of a type obtained by the second obtaining means is controlled to be displayed in the device list, in spite of a type obtained in the second obtaining means not
15 included in a type obtained in the first obtaining means.

12. The device according to claim 11, wherein said device list is displayed in a display area of an
20 external device.

13. The device according to claim 11, comprising sort means for sorting a plurality of devices based on a device information of a type obtained in the second
25 obtaining means, wherein the control means controls device information of a type obtained in the first obtaining means and device information of a type

obtained in the second obtaining means to be displayed
in order of sorted device in the device list.

14. The device according to claim 11, wherein
5 said first means obtains a type information
representing a type of a device information specified
to be displayed in the device list, and said control
means changes the type information so that a device
information of a type obtained in the second obtaining
10 means is displayed in the device list.

15. The device according to claim 11, comprising:
detecting means for detecting a plurality of
devices connected to a network;
15 device information obtaining means for obtaining
device information from the detected a plurality of
devices; and

device list generating means for generating a
device list data representing the device list based on
20 the obtained device information.

16. The device according to claim 15, comprising
memory means for storing the obtained device
information wherein the device list generating means
25 generates the device list data based on the device
information stored in the memory means.

17. The device according to claim 15, comprising transmitting means for transmitting a generated device list data to an external device, wherein the external device analyzes the transmitted device list data and
5 has a display area display the device list.

18. The device according to claim 17, wherein the device list data is data described in HTML and the device list transmitting means transmits the device
10 list data to a network using an HTTP protocol.

19. The device according to claim 18, wherein the device is a printer.

15 20. The device according to claim 11, wherein the device information is at least one selected from the group of device name, device product name, location of device installation, device network address and device MAC address.

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21. A program providing a device list with which device information with regard to a plurality of devices is arranged in order and displayed for each device,

25 wherein said program makes a computer perform:

a first obtaining step of obtaining a type of the device information specified to be displayed in the

device list;

a second obtaining step of obtaining a type of device information used to be criteria in the case where a plurality of devices are arranged in order in the device list; and

5 a control step wherein the device information of a type obtained in the second obtaining step is controlled to be displayed in the device list, in spite of a type obtained in the second obtaining step not included in a type obtained in the first obtaining step.

10 22. The program according to a claim 21, wherein the program makes a computer perform a display step that displays the device list on a display area.

23. The program according to a claim 21, wherein the program makes a computer perform a sort step to sort a plurality of devices based on the device information of a type obtained in the second obtaining step, and controls, in the control step, a device information of a type obtained in the first obtaining step and the device information of a type obtained in the second obtaining step to be displayed in order of sorted device in the device list.

24. The program according to a claim 21,

wherein said first step has a type information obtaining step to obtain a type information representing a type of the device information specified to be displayed in the device list, and

5 said control step has changing step of changing a type information so that a device information of a type obtained in the second obtaining step is displayed in the device list.

10 25. The program according to a claim 21, wherein said program makes a computer perform:

 a detection step of detecting a plurality of devices connected to a network;

15 a device information obtaining step of obtaining the device information from the detected a plurality of devices; and

 a device list generation step of generating a device list data representing the device list based on the obtained device information.

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26. A recording medium storing a program to provide a device list in which a device information with regard to a plurality of devices is arranged in order and displayed for every device and, the program
25 makes a computer perform:

 a first obtaining step of obtaining a type of a device information specified to be displayed in the

device list;

5 a second obtaining step of obtaining a type of device information used to be criteria in the case where a plurality of devices are arranged in order in the device list; and

10 a control step in which a device information of a type obtained in the second obtaining step is controlled to be displayed in the device list, in spite of a type obtained in the second obtaining step not included in a type obtained in the first obtaining means.

15 27. The recording medium according to claim 26, wherein the program makes a computer perform a display step having a display area display the device list.

20 28. The recording medium according to claim 26, wherein the program makes a computer perform a sort step sorting a plurality of devices based on a device information of a type obtained in the second obtaining step, and controls, in the control step, a device information of a type obtained in the first obtaining step and a device information of a type obtained in the second obtaining step to be displayed in order of
25 sorted device in the device list.

29. The recording medium according to claim 26,

wherein said first step has a type information obtaining step of obtaining a type information representing a type of a device information specified to be displayed in the device list; and

5 said control step has a changing step of changing the type information so that a device information of a type obtained in the second obtaining step is displayed in the device list.

10 30. The recording medium according to claim 26, wherein the program makes a computer perform:

 a detection step of detecting a plurality of devices connected to a network;

15 a device information obtaining step of obtaining device information from the detected a plurality of devices; and

 a device list generation step of generating a device list data representing the device list based on the obtained device information.

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31. A providing method of data list that displays data with regard to a plurality of records arranged in order for every record, comprising:

25 a first obtaining step of obtaining a data type designated to be displayed in the data list;

 a second obtaining step of obtaining a data type used to be criteria in the case where a plurality of

records are arranged in the data list; and

5 a control step of controlling a data of a type
obtained in the second obtaining step to be displayed
in the data list, in spite of a type obtained in the
second obtaining step is not included in a type
obtained in the first obtaining means.

10 32. The method according to claim 31, further
comprising a display step of making a display area
display the data list.

15 33. The method according to claim 31, further
comprising a sort step of sorting a plurality of
records based on a data of a type obtained in the
second obtaining step, wherein in said control step, a
data of a type obtained in the first obtaining step and
a data of a type obtained in the second obtaining step
are controlled to be displayed in order of sorted
record in the data list.

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25 34. The method according to claim 31, wherein
said first method comprises a type information
obtaining step of obtaining a type information
representing a data type specified to be displayed in
the data list, and said control step comprises a
changing step of changing the type information so that
a data of a type obtained in the second obtaining step

is displayed in the data list.

35. A device providing a data list in which a data with regard to a plurality of records is arranged
5 and displayed in order for every record, comprising:

first obtaining means for obtaining a data type specified to be displayed in the data list;

second obtaining means for obtaining a data type to become criteria when a plurality of records are
10 arranged in the data list; and

control means in which a device information of a type obtained in the second obtaining means is controlled to be displayed in the device list, in spite of a type obtained in the second obtaining means not
15 included in a type obtained in the first obtaining means.

36. The device according to claim 35, further comprising displaying means for making a display area
20 display the data list.

37. The device according to claim 35, comprising sort means for sorting a plurality of records based on data of a type obtained in the second obtaining means,
25 wherein the control means controls a data of a type obtained in the first obtaining means and a data of a type obtained in the second obtaining means to be

displayed in order of sorted record in the data list.

38. The device according to claim 35, wherein
said first means obtains a type information
5 representing a data type specified to be displayed in
the data list, and said control means changes the type
information so that a data of a type obtained in the
second obtaining means to be displayed in the data
list.

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39. A program providing a data list that displays
a data with regard to a plurality of records arranged
in order for every record,

wherein the program makes a computer perform:

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a first obtaining step of obtaining a data type
specified to be displayed in the data list;

a second obtaining step of obtaining a data type
used to be criteria in the case where a plurality of
records are arranged in the data list; and

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a control step in which a data of a type obtained
in the second obtaining step is controlled to be
displayed in the data list, in spite of a type obtained
in the second obtaining step not included in a type
obtained in the first obtaining means.

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40. The program according to claim 39, wherein
the program makes a computer perform a display step of

displaying the data list on a display area.

41. The program according to a claim 39, wherein
said program makes a computer perform a sort step of
5 sorting a plurality of records based on a data of the
type obtained in the second obtaining step, and in said
control step, a data of a type obtained in the first
obtaining step and a data of a type obtained in the
second obtaining step are controlled to be displayed in
10 order of the sorted records in the device list.

42. The program according to a claim 39, wherein
said program makes a computer perform in the first step
a type information obtaining step of obtaining a type
15 information representing a data type specified to be
displayed in the data list, and said control step has a
changing step of changing the type information so that
a data of a type obtained in the second obtaining step
is displayed in the data list.

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43. A recording medium to store a program
providing a data list in which a data with regard to a
plurality of records is arranged in order and displayed
for every record and,

25 wherein said program makes a computer perform:
a first obtaining step of obtaining a type of a
data specified to be displayed in the data list;

a second obtaining step of obtaining a type of data used to be criteria in the case where a plurality of records are arranged in order in the device list; and

5 a control step of controlling a data of a type obtained in the second obtaining step to be displayed in the device list, in spite of a type obtained in the second obtaining step not included in a type obtained in the first obtaining means.

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44. The recording medium according to claim 43, wherein the program makes a computer perform a display step of displaying the data list on a display area.

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45. The recording medium according to claim 43, wherein said program makes a computer perform a sort step of sorting a plurality of records based on a data of a type obtained in the second obtaining step, and in said control step, a data of a type obtained in the first obtaining step and a data of a type obtained in the second obtaining step are controlled to be displayed in order of the sorted records in the data list.

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46. The recording medium according to claim 43, wherein the program makes a computer perform in the first step a type information obtaining step of

obtaining a type information representing the data type specified to be displayed in the data list, and said control step has a changing step of changing the type information so that a data of a type obtained in the second obtaining step is displayed in the data list.

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